

THE CONTRED STAYLES OF ANTERICAL

TO ALL TOWHOM THESE PRESENTS SHALL COME:
Agricultural Research Service H.S. Department of Agriculture

THETENS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE COVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT LIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COWPEA

'Petite-N-Green'

In Testimonn Thereof, I have hereunto set my hand and caused the seal of the Hant Taricty Protection Office to be affixed at the City of Washington, D.C. this ninth day of Tebruary, in the year of our Lord two thousand one.

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

AGRICULTURE AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse) 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		Application is required in order to certificate is to be issued (7 U.S.C. until certificate is issued (7 U.S.C. 2. TEMPORARY DESIGNATION OR	le in accordance with the Privacy Act of erwork Reduction Act (PRA) of 1995. The determine if a plant variety protection C. 2421). Information is held confidential 2426).
Agricultural Research Service		EXPERIMENTAL NUMBER	Detite N. Corre
U.S. Department of Agriculture		US-861	Petite-N-Green
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Count	לקץ]	TELEPHONE (include area code)	FOR OFFICIAL USE ONLY
1400 Independence Ave., S.W. Washington, DC 20250-0302 USA		(301) 504-6532 9	PXP3 NIMBER 9900074
		6. FAX (include area code) (301) 504-5060	DATE
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Bots	nical)	FILING AND EXAMINATION FEE:
Vigna unguiculata	Leguminos	ae	£ \$ 2450.°°
9. CROP KIND NAME (Common name)			S DATE 11/13/98
Cowpea			Ē
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION	TION (corporation, partner	ship, association, etc.) (Common name)	C CERTIFICATION FEE:
U. S. Government 11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	1 \$ 320 -
N/A		N/A	D 10/25/00
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERV	VE IN THIS APPLICATION	AND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)
Willard J. Phelps			(301) 504-6532
10300 Baltimore Blvd., Bldg. 005 Beltsville, MD 20705-2350			15. FAX (include area code)
Belesville, in 20703 2330			(301) 504-5060
			(301) 304-3000
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow in a. 区 Exhibit A. Origin and Breeding History of the Variety	nstructions on reverse)		
b. Exhibit B. Statement of Distinctness			
c. 🔀 Exhibit C. Objective Description of the Variety			
d.			
e. Exhibit E. Statement of the Basis of the Applicant's Ownership			
f. X Voucher Sample (2,500 viable untreated seeds or, for tuber propagated	d varieties verification that	tissue culture will be deposited and maintain	ed in an approved public repository)
g. X Filing and Examination Fee (\$2,450), made payable to *Treasurer of the			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY Y YES (If "yes," answer items 18 and 19 below)	VARIETY NAME ONLY, A		on 83(a) of the Plant Variety Protection Act)
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED A	AS TO NUMBER OF	707 53	OF PRODUCTION BEYOND BREEDER SEED?
YES NO		FOUNDATION REGISTER	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN REL YES (If "yes," give names of countries and dates)	EASED, USED, OFFERED NO	FOR SALE, OR MARKETED IN THE U.S. OR C	OTHER COUNTRIES?
	usp	V V N S SABO	
21. The applicant(s) declare that a viable sample of basic seed of the variety will be applicable, or for a tuber propagated variety a tissue culture will be deposited in	furnished with application	and will be replenished upon request in acco	rdance with such regulations as may be
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or Section 42, and is entitled to protection under the provisions of Section 42 of the	tuber propagated plant va	riety, and believe(s) that the variety is new. d	istinct, uniform, and stable as required in
Applicant(s) is(are) informed that false representation herein can jeopardize protein	ection and result in penalti	es.	
SIGNATURE OF APPLICANT (Owner(s))	SIGNAT	URE OF APPLICANT (Owner(s))	
Kuhar L. turn			
NAME (Please print or type)	NAME	Please print or type)	
RICHARD L. FERY	RO	OGER H. LAWSON	
CAPACITY OR TITLE DATE	37	TY OR TITLE	DATE
Research Geneticist		ational Program Leade orticulture & Sugar C	

Exhibit A: Origin and Breeding History of the Variety

'Petite-N-Green' was developed over an eight-year period using a pedigree breeding procedure that included a single cross and repeated single-plant selections (Attachment 1 to Exhibit A). The cross involved 'Bettergreen', a cream-type pea with green cotyledons, and 'Coronet', a pinkeye-type cultivar with cream-colored cotyledons. The green cotyledon trait is conditioned by a single recessive gene, symbolized *gc* (Attachment 2 to Exhibit A). Intense selection pressure was applied in the F₂ through F₉ generations for the green cotyledon phenotype and the following horticultural characteristics: plant habit (procumbent, similar to 'Coronet'), maturity (days to harvest), pod placement (at foliage level or above), pod shape (slightly curved), color of mature constant must remove most of the pod load), seed shape (ovate to kidney), seed coat pattern (small eye), eye color (pink), texture of dry testa (smooth), seed size, seed germination, hardiness of seed coat (dry seed must imbibe water readily), pod yield, and seed yield. 'Petite-N-Green' originated as a bulk of an F₉ population grown in 1994.

'Petite-N-Green' appeared stable and uniform through three generations of selfing during the seed increase process. The appearance of off-types was not a problem.

Attachment 1. Pedigree of 'Petite-N-Green'.

Attachment 2. Fery, R. L., and P. D. Dukes. 1994. Genetic analysis of the green cotyledon trait in southernpea [*Vigna unguiculata* (L.) Walp.]. J. Amer. Soc. Hort. Sci. 119(5):1054-1056.

USDA-AMS-PAPU '98 JUL 23 AP:29

MATURETY

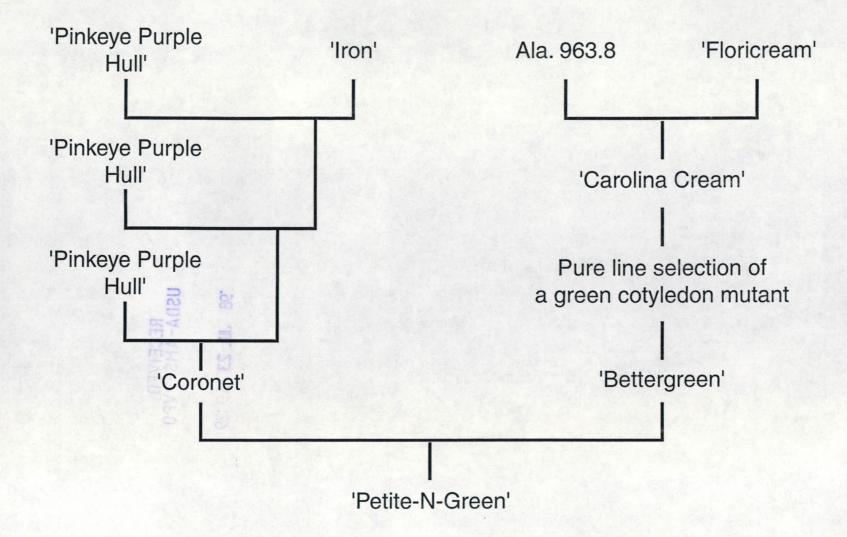
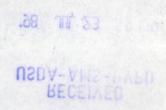


Exhibit B: Statement of Distinctness

'Petite-N-Green' is most similar to 'Charleston Greenpack', 'Coronet', and 'Pinkeve Purple Hull-BVR'. 'Petite-N-Green' differs from 'Charleston Greenpack' in having distinctly smaller seed *(11.5 to 20.5% less mass per 100 seeds), a distinctly different pea shape (ovate rather than kidney), and distinctly less pigmentation on the stems and branches (only slight to moderate pigmentation at the bases and tips rather than extensive pigmentation over the entire plant part). 'Petite-N-Green' differs from 'Coronet' and 'Pinkeve Purple Hull-BVR' and all other pinkeve-type cultivars except 'Charleston Greenpack' in having green-colored cotyledons. 'Petite-N-Green' and 'Charleston Greenpack' are homozygous at the green cotyledon locus for the recessive allele conditioning green-colored cotyledons (genotype: gc/gc). 'Coronet', 'Pinkeye Purple Hull-BVR', and all other pinkeye-type cultivars except 'Charleston Greenpack' and 'Petite-N-Green' are homozygous at the green cotyledon locus for the dominant allele conditioning cream-colored cotyledons (genotype: Gc/Gc). Seed coats and cotyledons of field-grown 'Charleston Greenpack' and 'Petite-N-Green' peas harvested at dry-stage maturity are light olive in color **(Munsell rating: 7.5 Y 7/4). In comparison, seed coats and cotyledons of 'Coronet' and 'Pinkeye Purple Hull-BVR' peas harvested at similar maturity have a cream color (Munsell rating: 2.5 Y 8/4). Dry 'Charleston Greenpack' and 'Petite-N-Green' peas imbibed to restore fresh-harvest seed size and blanched in boiling water for three minutes exhibit a "fresher" color than dry seeds. Imbibed and blanched 'Charleston Greenpack' and 'Petite-N-Green' peas have a nearfresh green color (Munsell rating: 10 Y 7/4); similarly treated 'Coronet' and 'Pinkeye Purple Hull-BVR' peas have a cream color (Munsell rating: 5 Y 8/2).



^{*}Tables showing data for various seed size characteristics are attached to Exhibit D. **Munsell Color. 1990. Munsell book of color: Glossy finish collection. Munsell Color, Baltimore, Maryland.

Exhibit C FORM GR-470-4 (7-76)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

BELTSVILLE, MARYLAND 20705
OBJECTIVE DESCRIPTION OF VARIETY

9900074

INSTRUCTIONS: See Reverse

INSTRUCTIONS: See Reverse	(Cowpea)
NAME OF APPLICANT(S)	VARIETY NAME OF THE
Agricultural Research Service	VARIETY NAME OR TEMPORARY DESIGNATION
U.S. Department of Agriculture	Petite-N-Green
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)	
1400 Independence Ave., S.W.	FOR OFFICIAL USE ONLY
Washington, DC 20250-0302	
Place the appropriate number that describes the service of the ser	
Place the appropriate number that describes the varietal character of this varietae a zero in first box (e.g. 089 or 09) when number is	either 99 or less.
1. PLANT HABIT AT GREEN SHELL STAGE:	2. PLANT SIZE:
3 1 - ERECT 2 - SEMIERECT 3 - PROCUMBENT	5 0 CM. HIGH AT MATURITY
3. STEM COLOR:	S TO CM. HIGH AT MATURITY
	4. NODE COLOR:
1 = GREEN 2 = PURPLE	2 1 = GREEN 2 = PURPLE
5. FOLIAGE:	
1 1 = OPEN 2 = COMPACT	6. LEAF COLOR (See Reverse):
	2 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN
7. LEAF SURFACE:	
1 1 = SMOOTH 2 = BLISTERED	1 1 = DULL 2 = GLOSSY
8. FLOWER COLOR (See Reverse) Jap 10/10/00 PER LETTER	
1 = PURPLE 2 = LAVENDER 3 = TINGED	9. FIRST FLOWERING
JEVFOLET	4 5 NUMBER OF DAYS
10. POD:	
3 PLACEMENT: 1 = BELOW FOLIAGE 2 = ABOVE FOLIAGE	1 LOCATION: 1 - SCATTERED 2 - BUNCHED
	II SOUTHER STRONCHED
1 4 CM. LONG 7 MM. WIDE	2 CURVATURE: 1 = STRAIGHT 2 = CURVED
2 CONSTRICTIONS: 1 = NONE 2 = SLIGHT 3 = DEEP	SUBSACS (C I. II
	2 SURFACE (Green shell maturity): 1 = DULL 2 = GLOSSY
4 COUOR (Green shell maturity): 1 = SILVER-GREEN 2 = GREE	N 3 = LIGHT PURPLE 4 = DARK PURPLE
COLOR (Dry maturity): 1 = WHITE 2 = STRAW 3 = DRAB	
1 = WHITE 2 = STRAW 3 = DRAB	4- PURPLE 5= DAKK PURPLE 5MP 10/10/00
2 CROSS SECTION (Green shell stage-width/height): 1 = (1: <)	
11. SEED: DRY	2 = (1: >) 3 = (1:1)
AULIMOSO OS COSTOS TO	
PER POD 2 STATE (SEE REVERSE): 1 = KIDNE	2 - OVATE TO OVOID 3 - CROWDER
7 MM. LONG	OSE 5 - RHOMBOID
1- 🔊	3- 0 4-0 5-0 6-0
5 MM. WIDE 5 HILAR EYE TYPE:	
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
1 10 8 GM. PER 1000 SEEDS SPECKLED	BLOTCH NARROW BIG SMALL VERY SMALL
COAT: 1 - WRINKLED COLOR BATTER	NARROW BIG SMALL VERY SMALL
2 2 SMOOTH COLOR PATTERN: 1 = SINGLE 4 = SPECKI	
PRIMARY COLOR (Single color or basic color)	
6 - COFFEE	MAROON 8 - BUFF OR CLAY 9 - PINK 0 - WHITE
SECONDARY COLORS PRODUCING THE PATTERN, MARBLING OR SPEC	KLING (Enter a zero in boxes where the colors do not identify the
0 2-BLACK 0 3-	DULL BLACK 0 4 - BLUE 0 5 - RED
0 6 - COFFEE 0 7 - MAROON 0 8-	
0 8=	BUFF X 9 - PINK 0 0 - WHITE

FORM GR-470-4 (REVERSE)			
12. DISEASE (0 = Not Tested	, 1 = Susceptible, 2 = Resistant)		
0 FUSARIUM WILT	1 ROOT KNOT NEMATODE	0 CHARCOAL ROT	0 ZONATE LEAF SPOT
0 RED LEAF SPOT	0 POWDERY MILDEW	O MOTTLE VIRUS	OTIC 0 SOUTHERN BEAN MOSAIC VIRUS
0 BEAN YELLOW MOSAIC VIRUS	0 CUCUMBER MOSAIC VIRUS	0 BEAN POD MOTTE	LE 0 SOYBEAN CYST NEMATODE
0 COWPEA YELLOW MOSAIC VIRUS	0 BACTERIAL CANKER	0 CERCOSPORA LEA	AF. 0 STING NEMATODE
0 RUST .	0 SOUTHERN BLIGHT	0 ROOT ROT	Blackeye Cowpea 1 OTHER (Specify) Mosaic Virus
13. INSECT (0 = Not Tested,	1 = Susceptible, 2 = Resistant)		
0 MEXICAN BEAN BEETLE	0 COWPEA APHID	0 COWPEA CURCUL	IO 0 STINK BUGS
0 LESSER CORNSTALK	0 EUROPEAN CORNBORER	0 CORN EARWORM	0 BEET ARMYWORM
0 THRIPS	0 SERPENTINE LEAF	OTHER (Specify)	
14. INDICATE WHICH VARI	ETY MOST CLOSELY RESEMBLES THAT SU	IRMITTED:	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant size	coronet	Plant habit	
Pod size	coronet	Plant pigmentation	No known similar remistra
No, days to maturity	coronet	Seed coloration	No known similar variety Charleston Greenpack

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

- 1. C. V. Piper, 1912, Agricultural Varieties of Cowpea and Related Species, U.S.D.A., Bulletin No. 229.
- 2. L. L. Ligon, 1958, Characteristics of Cowpea Varieties, Oklahoma State University, Bulletin B-518.
- 3. W. J. Spillman and W. J. Sando, 1929, Mendelian Factors in the Cowpea, papers of the Michigan Academy of Science, Arts and Letters, Vol. XI.

LEAF COLOR: Any recognized color chart may be used to determine the leaf color of the described variety. The following cowpea varieties may be used as a guide to identify colors listed:

1. Light Green - Texas Cream 40

2. Medium Green - Big Boy

3. Dark Green - California Blackeye #5.

FLOWER COLOR: White flower should be treated with a one percent solution of hydrochloric acid to determine if anthocyanin is present. If color appears as a result of the test, classify as <u>tinged</u>.

TERMS USED TO DESCRIBE SHAPES:

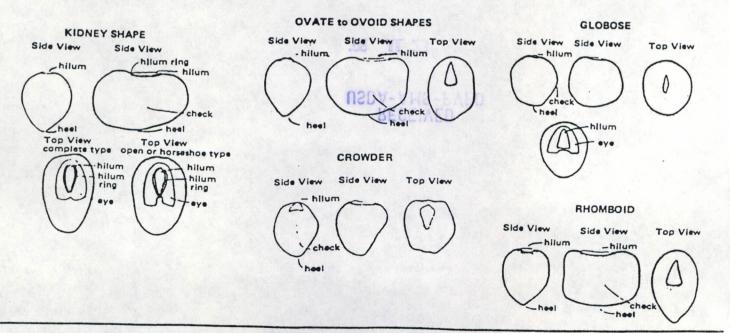


Exhibit D: Additional Description of the Variety

'Petite-N-Green' is a pinkeye-type cowpea, *Vigna unguiculata* (L.) Walp., developed for use as a home garden variety. 'Petite-N-Green' can be harvested at the dry stage of maturity without loss of the pea's fresh green color.

Results of replicated spring and summer field tests conducted at Charleston, S.C., during 1996 and 1997 indicate that 'Petite-N-Green' yields are usually comparable to 'Charleston Greenpack' and 'Coronet' yields, and comparable to or better than 'Pinkeye Purple Hull-BVR' yields (Attachment 1 to Exhibit D).

'Petite-N-Green' flowers three days later than 'Charleston Greenpack' and 2 days later than 'Coronet' and 'Pinkeye Purple Hull-BVR' (Attachment 2 to Exhibit D).

'Petite-N-Green' typical matures four to seven days later than 'Charleston Greenpack' and two to nine days later than 'Coronet' or 'Pinkeye Purple Hull-BVR' (Attachment 1 to Exhibit D).

'Petite-N-Green' has a low bush plant habit similar to that of 'Coronet'. It has a more procumbent vine than 'Charleston Greenpack' (Attachment 3 to Exhibit D).

'Petite-N-Green' has extensive pigmentation (purple) on the peduncles; the stems, branches, and petioles contain slight to moderate pigmentation at the bases and tips.

THE FLOWERS TRE LIGHTLY PIGMENTED;
Flower color is predominately white; the upper, inside margin of the standard is lightly pigmented (violet), the base of the standard is yellow, and the wing is pigmented (violet) on the back surface.

Pod set is concentrated, and the pods are borne at foliage level in a scattered fashion.

Dry pods are attached to the peduncles in a pendant manner, and each peduncle typically produces two pods.

'Petite-N-Green' pods are smaller (length and height) than 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' pods (Attachments 3 and 4 to Exhibit D).

'Petite-N-Green' pods contain more peas than 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' pods (Attachment 3 to Exhibit D).

Pod color is green when immature, dark purple when ready for mature-green harvest, and dark purple when dry. The upper sutures and tips of immature pods are pigmented.

Fresh peas have a pink eye, quite similar to those of 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR'.

Dry peas have a smooth seed coat.

'Petite-N-Green' peas are significantly smaller than 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' peas -- the mass per 100 seeds and the seed length are less (Attachments 1, 4, and 5 to Exhibit D).

Attachment 1.	Table 1. Number of days to harvest, machine shellout, mass per 100 dry peas, and dry pea yields for 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' southernpeas grown in spring and summer plantings, Charleston, S.C., 1996 and 1997.
Attachment 2.	Table 2. Number of days to flowering for 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' southernpeas, Charleston, S.C., 1997.
Attachment 3.	Table 3. Plant height, plant width, peduncle length, pod length, and number of peas per pod for 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR southernpeas, Charleston, S.C., 1997.
Attachment 4.	Table 4. Fresh pod and pea characteristics of 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' southernpeas, Charleston, S.C., 1997.
Attachment 5.	Table 5. Dry pea characteristics of 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR'

southernpeas, Charleston, S.C., 1997.

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Table 1. Number of days to harvest, machine shellout, mass per 100 dry peas, and dry pea yields for 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' southernpeas grown in spring and summer plantings, Charleston, S.C., 1996 and 1997².

Cultivar	Days to harvest (no.)	Machine shellout (%) ^y	Mass/100 dry peas (g)	Dry pea yield (kg.ha ⁻¹)
	Spring	g 1996		
Petite-N-Green	71.0 a ^x	80.7 a	10.3 b	1,121 a
Charleston Greenpack	67.0 a	78.2 b	12.9 a	978 a
Coronet	66.4 a	79.8 a	13.1 a	1,175 a
Pinkeye Purple Hull-BVR	66.0 a	76.9 c	13.4 a	1,259 a
	Summer	1996		
Petite-N-Green	69.6 a	75.7 b	9.7 c	699 a
Charleston Greenpack	62.4 b	79.1 a	12.2 a	586 a
Coronet	67.8 a	71.6 c	11.1 b	548 a
Pinkeye Purple Hull-BVR	68.0 a	72.9 bc	11.6 ab	586 a
	Spring	1997		
Petite-N-Green	70.0 a	79.6 a	10.1 c	761 b
Charleston Greenpack	65.0 c	78.1 b	12.6 b	967 a
Coronet	66.2 b	78.9 ab	13.4 a	971 a
Pinkeye Purple Hull-BVR	66.9 b	74.1 c	13.3 a	732 b
	Summe	: 1997		
Petite-N-Green	75.8 a	80.0 a	13.1 b	719 ab
Charleston Greenpack	68.6 b	77.6 a	14.8 a	592 b
Coronet	67.6 b	78.2 a	14.7 a	869 a
Pinkeye Purple Hull-BVR	66.6 b	74.4 b	14.9 a	596 b

²Spring and summer 1996 tests planted on 23 May and 2 July, respectively. Spring and summer 1997 tests planted on 2 June and 25 June, respectively. The experimental design of each test was a randomized complete block with 5 (1996) or 10 replications (1997). Each plot was space-planted, 18 hills per plot, three seeds per hill, 30 cm between hills, and 102 cm between rows. Single harvest of dry pods.

Percentage of dry seed obtained from machine-shelled sample of dry pods [(mass of dry seed/mass of dry pods) x 100].

^{*}Mean separation within columns by Duncan's multiple range test at $P \leq 0.05$.

Table 2. Number of days to flowering for 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' southernpeas, Charleston, S.C., 1997².

Cultivar	Days to flowering (no.)
Petite-N-Green	45.0 a
Charleston Greenpack	42.1 c
Coronet	43.3 b
	42.9 b

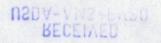
²Replicated spring test.

 $^{^{}Y}$ Mean separation within columns by Duncan's multiple range test at $P \leq 0.05$.

Table 3. Plant height, plant width, peduncle length, pod length, and number of peas per pod for 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' southernpeas, Charleston, S.C., 1997.

Cultivar	Plant height (cm) ²	Plant width (cm) ²	Peduncle length (cm) ²	Pod length (cm) ^y	pod (no.) y
Petite-N-Green	49.8 a ^x	79.3 a	35.5 a	14.4 c	13.7 a
Charleston Greenpack	47.9 a	67.2 c	34.1 a	15.3 b	11.6 b
Coronet	51.3 a	76.3 a	36.6 a	15.1 b	11.5 b
Pinkeye Purple Hull-BVR	47.8 a	71.0 b	36.0 a	16.0 a	11.1 b

²Spring test.



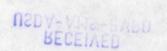
ySummer test.

^{*}Mean separation within columns by Duncan's multiple range test at $P \leq 0.05$.

Table 4. Fresh pod and pea characteristics of 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' southernpeas, Charleston, S.C., 1997².

	Fresh pods		Fresh peas		
Cultivar	Width (mm)	Height (mm)	Length (mm)	Width (mm)	Mass/ 100 peas (g)
Petite-N-Green	7.2 b ^y	8.1 b	8.7 b	7.6 b	28.5 h
Charleston Greenpack	7.4 ab	8.9 a	10.3 a	7.4 ab	31.6 a
Coronet	7.2 b	8.9 a	10.3 a	7.2 b	33.5 a
Pinkeye Purple Hull-BVR	7.6 a	8.9 a	10.5 a	7.6 a	31.8 8

²Fresh pods and peas harvested from replicated summer test.

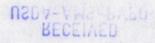


Mean separation within columns by Duncan's multiple range test at $P \leq 0.05$.

Table 5. Dry pea characteristics of 'Petite-N-Green', 'Charleston Greenpack', 'Coronet', and 'Pinkeye Purple Hull-BVR' southernpeas, Charleston, S.C., 1997^z.

	Width	Length (mm)	
Cultivar	(mm)	(nutt)	
Petite-N-Green	4.95 a ^y	6.61 c	
Charleston Greenpack	4.55 b	7.68 b	
Coronet	4.63 b	7.79 b	
Pinkeye Purple Hull-BVR	4.56 b	7.98 a	

²Dry peas harvested from replicated summer test.



Mean separation within columns by Duncan's multiple range test at $P \leq 0.05$.

REPRODUCE LOCALLY. Include form number and date on all reproductions.	FORM APPROVED - OMB NO	0. 0581-0055	EXPIRES: 12-31-96	
STATEMENT OF THE BASIS OF OWNERSHIP	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME		
Agricultural Research Service	OR EXPERIMENTAL NUMBER			
U.S. Department of Agriculture	US-861	Pet	ite-N-Green	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	6. FAX (incl	ude area code)	
1400 Independence Ave., S.W.	(301) 504-6532	(301)	504-5060	
Washington, DC 20250-0302 USA	7. PVPO NUMBER			
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain.	XYES	NO	
9. Is the applicant (individual or company) a U.S. national or U.S. based companils no, give name of country	ny?	X YES	No	
			A 10 MIN MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE	
10. Is the applicant the original breeder? If no, please answer the following:		X YES	No	
 a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of 	country		-	
 b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of c 	ountry_U.S. Department	X YES of Agr	□NO iculture, ARS	
		ARA:		
11. Additional explantion on ownership (If needed, use reverse for extra space)				
N/A				
PLEASE NOTE:				
Plant variety protection can be afforded only to owners (not licensees) who meet	t one of the following criteria:			
If the rights to the variety are owned by the original breeder, that person must of a country which affords similar protection to nationals of the U.S. for the state of the U.S. for	st be a U.S. national, national of a	UPOV mem	ber country, or national	
 If the rights to the variety are owned by the company which employed the or nationals of a UPOV member country, or owned by nationals of a country whi genus and species. 	iginal breeder(s), the company much affords similar protection to na	st be U.S. b tionals of th	ased, owned by e U.S. for the same	
3. If the applicant is an owner who is not the original breeder, both the original l	breeder and the applicant must me	eet one of th	e above criteria.	
The original breeder may be the individual or company who directed final bre definition.	eding. See Section 41(a)(2) of	the Plant Va	ariety Protection Act for	

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